

Freshworks Assignment Output Samples

Hello dear,

This file contains pictures of some basic test cases added to the project. You can go through it and can easily understand How it is working.

Let jump into the main content

Here I have shown you outputs of accessing database using two methods:

- Through RESTful interface (API).
- By importing module to other module and use functions.

I have implemented Create, Read, Delete (CRD) operation using file based database with all possible errors in it.

NOTE: If any picture is not visible, it can be found at [github repository](#)

Using module in another module

1. In the below image you can see how basic operations are working after importing the module.

```
===== RESTART: Shell =====
>>> '__author__': b-thebest (Burhanuddin Kamlapurwala)'
['__author__': b-thebest (Burhanuddin Kamlapurwala)']
>>> import sys
>>> sys.path
['', '/home/burhan', '/usr/bin', '/usr/lib/python3.6.zip', '/usr/lib/python3.6', '/usr/
home/burhan/.local/lib/python3.6/site-packages/smop-0.41b0-py3.6.egg', '/usr/local/lib
>>> #Going to project directory
>>> from os import chdir
>>> chdir("work/file-based-CRD-operations")
>>>
>>> #Importing operation file
>>> from src_data store.operations.operation_functions import CRD
>>> data = {"demo": {"name": "John", "city": "Seattle"}}
>>>
>>> #create operation
>>> CRD().create(data)
(True, 'Data inserted successfully')
>>> CRD().create({"demo2": {"name": "Bob", "city": "Agra", "Time-To-Live": 120}})
(True, 'Data inserted successfully')
>>> CRD().create({"demo3": {"name": "Alan", "city": "Indore", "Time-To-Live": 60}})
(True, 'Data inserted successfully')
>>>
>>> #read operation
>>> CRD().read("demo")
(True, {'name': 'John', 'city': 'Seattle'})
>>> CRD().read("demo2")
(True, {'name': 'Bob', 'city': 'Agra', 'Time-To-Live': 120})
>>> CRD().read("demo3")
(True, {'name': 'Alan', 'city': 'Indore', 'Time-To-Live': 60})
>>>
>>> #delete operation
>>> CRD().delete("demo2")
(True, 'Data value deleted successfully')
>>>
>>>
```

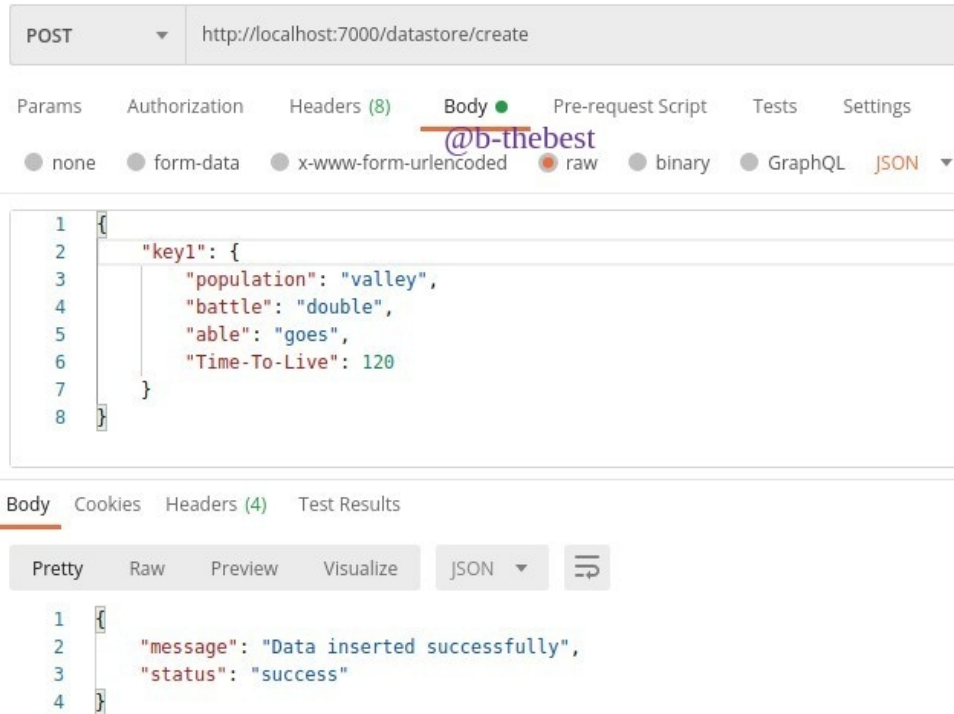
2. In the below file attached we will be able to see different types of constraint applied while using CRD functions.

```
>>>
>>> #Checking if it takes duplicate keys or not
>>> CRD().create(data)
(False, "KeyError: 'demo' Key already exist")
>>>
>>> #Checking if it takes key more than 32 characters
>>> CRD().create({"onetwothreefourfivesixseveneightnineten": {"name": "My Name"}})
(False, 'Invalid key length: Key can not be larger than 32 characters for onetwothreefourfivesixseveneightnineten')
>>>
>>> #Checking if it takes key with special characters or spaces
>>> CRD().create({"new key": {"name": "My Name"}})
(False, "TypeError: Key should be of type string without special characters and spaces for 'new key'")
>>> CRD().create({"keyWithSpecial@character": {"name": "My Name"}})
(False, "TypeError: Key should be of type string without special characters and spaces for 'keyWithSpecial@character'")
>>>
>>> #Checking if it takes values other than JSON format for a key
>>> CRD().create({"newKey": "New Name"})
(False, 'TypeError: Data value should be json for key newKey')
>>>
>>> #Checking if JSON of more than 16KB is allowed or not with random string of greater than 16KB
>>> CRD().create({"demo4": {"randomString": "1a6GxjZuj0J5BcCaH4Ke230K0SktLPxSKDPw5z5GhPaCHQVvwCLkXzWKHH9xlhyGmHEnp1a8Dfym
0jqPrY4PaxGYSIGKIH5x6olhdrD0Bwo1I0VyimEbAfUDPhXUjiZ7BqxCIv7S1Ky6XV1nz3LhpN4E2S0LkcxJ8FNPW9mTxoPehmjsWZuyRVCduuHU7Ta01jBP
hqPs50iLyyCvSuqJfPckBLgtinuTUqFZcKUk08igUomhHXB4elzAsT72qMmFhw6vqAC16uxpWg8b0ajZ9aEJ5D64zsfZioJH0NNQptFymvxo3dabhPDIU8GzN
BRiDJyfiD8aK5IBsbrMyj0b9GR8zrPqhg9hJBfjg3ukluhLNVmoqupk7FwraHJGYAwTDPPrfybt3pojqsJDM0Kv10UtdFn5bA2DK2qa1WAE4Ji4ulIMQ6MEDl
8SZFwdqbh3LP8vCnRI3EbybuGI6cGLNRaA8vGq7XnCYC8fubbEAfy0A2xsHogPMLCaQ8mp2dwGlcHuG06noc6nz7Xqku1IiafraDR0ngsS3mgtNyUCnuZBZ8l
HDrYJhLQrNoxInylYzHTQ03y8to42PN3iB9phz8kaoxe8LzcYryVZjHU447S7ZRC5z7Vs7lsQraAtpahcn1KxUhpUSkyJXsqUDDSY9jgdZY7LPiBUzbR1PNjki
u4Vksnqh179enulmkFSC0Wv4FNGHSuYuuSolM76R7P9VUfEmFSykn1NyheVITyirGaG0U5fSnhicRKgv0GnF6F47icHSYD16ST1REPTn7un7Yv6e0GtmWmidu
sNi0iBDR03xh5GVILDEhqvBNSiltj0dx6mImWDGPGFodWCbmD04087X2pN35iGZHDWcYdLgeHgz6rjLoDWFcgH
F07J0sfGyrFBfdSNHTcb90rwst4pVBld5fU9GTWRKm8m5CjPZdkrtVzAvsmhjcof6hoPmdymgbESPr6jvvKAJC
O3G3hXvHqZ5DW5X8ePT6agcs0nYBKmsgKcovuoPwXrBl6Ph05kGDJleeTI40qy5V"}})
(False, 'Data limit of value is 16KB exceeded for demo4')
>>>
>>> #Check if it can read expired data or not
>>> CRD().read("demo3")
(False, 'Data expired')
>>>
>>> #Check if it can deny request for key which does not exist
>>> CRD().read("notExistingKey")
(False, 'KeyError: No data for given key')
>>>
>>> #Check if it can delete expired data
>>> CRD().delete("demo3")
(False, 'Data expired')
>>>
>>> #Check if it can deny delete request for key which does not exist
>>> CRD().delete("notExistingKey")
(False, 'KeyError: No data for given key')
>>>
>>> ##NOTE:: Key constraints are applied on every CRD operations as shown for create
>>>
>>> |
```

RESTful Interface

Here we go to see sample of REST API results.

1. Create some record



The screenshot shows a REST client interface with a POST request to `http://localhost:7000/datastore/create`. The request body is a JSON object: `{ "key1": { "population": "valley", "battle": "double", "able": "goes", "Time-To-Live": 120 } }`. The response body is a JSON object: `{ "message": "Data inserted successfully", "status": "success" }`.

```

1 {
2   "key1": {
3     "population": "valley",
4     "battle": "double",
5     "able": "goes",
6     "Time-To-Live": 120
7   }
8 }

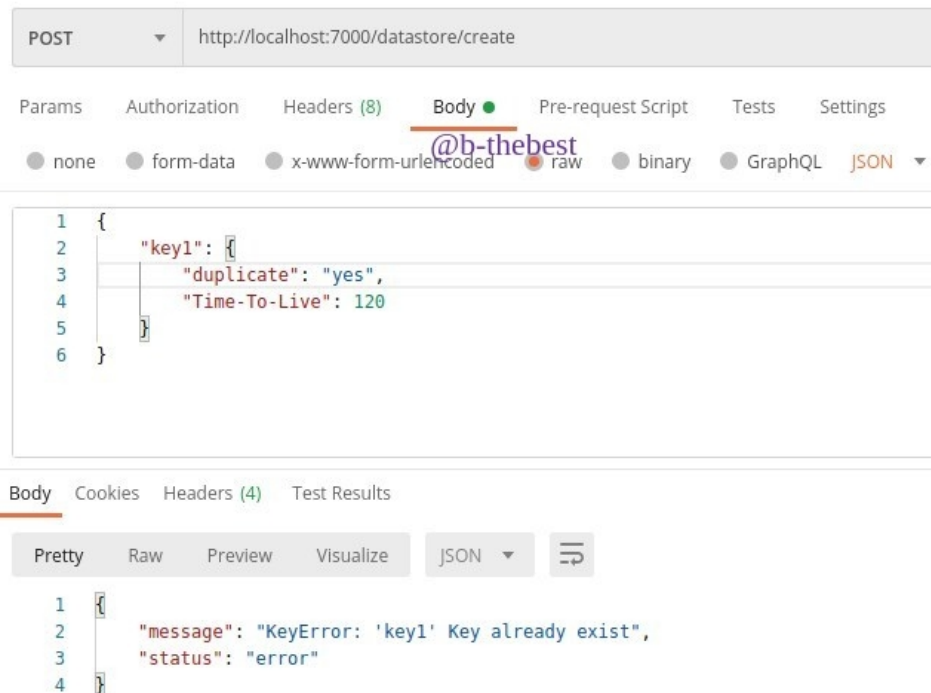
```

```

1 {
2   "message": "Data inserted successfully",
3   "status": "success"
4 }

```

2. Trying to create duplicate key.



The screenshot shows a REST client interface with a POST request to `http://localhost:7000/datastore/create`. The request body is a JSON object: `{ "key1": { "duplicate": "yes", "Time-To-Live": 120 } }`. The response body is a JSON object: `{ "message": "KeyError: 'key1' Key already exist", "status": "error" }`.

```

1 {
2   "key1": {
3     "duplicate": "yes",
4     "Time-To-Live": 120
5   }
6 }

```

```

1 {
2   "message": "KeyError: 'key1' Key already exist",
3   "status": "error"
4 }

```

3. Trying to create record with key length more than 32 characters

The screenshot shows a REST client interface with a POST request to `http://localhost:7000/datastore/create`. The request body is a JSON object with a key that is longer than 32 characters. The response is an error message indicating that the key length is invalid.

Request:

```
POST http://localhost:7000/datastore/create
```

Body:

```
{
  "morethan32charactersmorethan32charactersmorethan32characters": {
    "duplicate": "yes",
    "Time-To-Live": 120
  }
}
```

Response:

```
{
  "message": "Invalid key length: Key can not be larger than 32 characters",
  "status": "error"
}
```

4. Key containing special character should not be allowed

The screenshot shows a REST client interface with a POST request to `http://localhost:7000/datastore/create`. The request body is a JSON object with a key containing a special character. The response is an error message indicating that the key should be a string without special characters.

Request:

```
POST http://localhost:7000/datastore/create
```

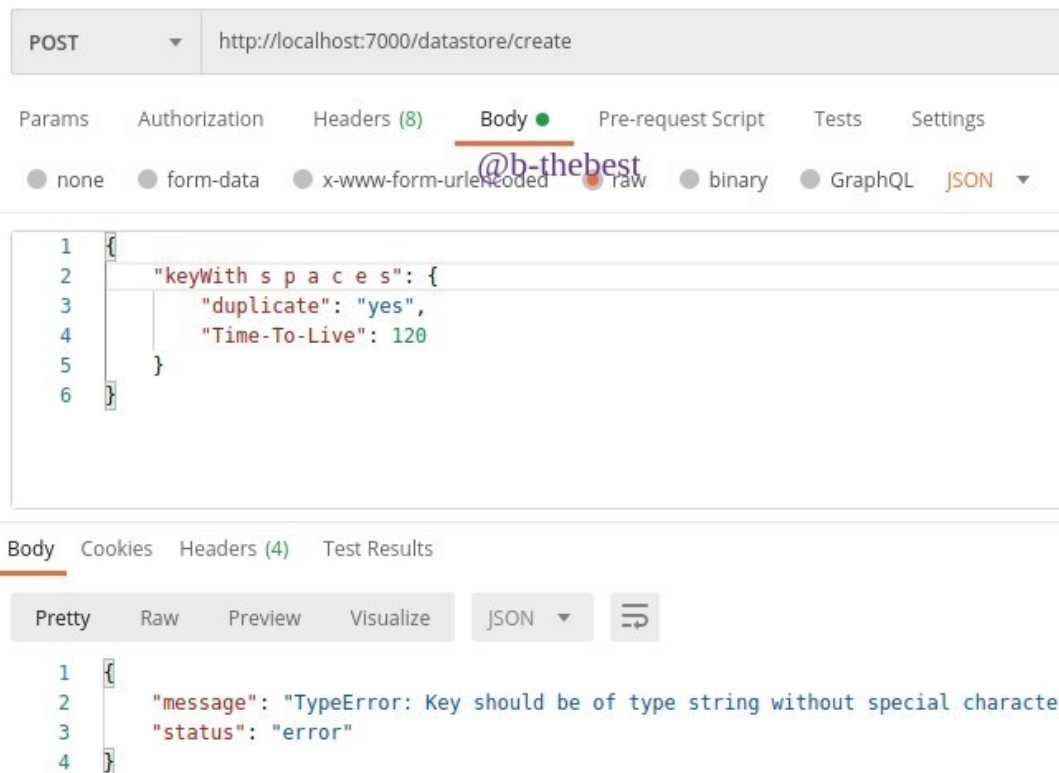
Body:

```
{
  "keyWithSpecial@character": {
    "duplicate": "yes",
    "Time-To-Live": 120
  }
}
```

Response:

```
{
  "message": "TypeError: Key should be of type string without special character",
  "status": "error"
}
```

5. Key containing spaces should not be allowed



POST ▼ http://localhost:7000/datastore/create

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼

```

1 {
2   "keyWith s p a c e s": {
3     "duplicate": "yes",
4     "Time-To-Live": 120
5   }
6 }

```

Body Cookies Headers (4) Test Results

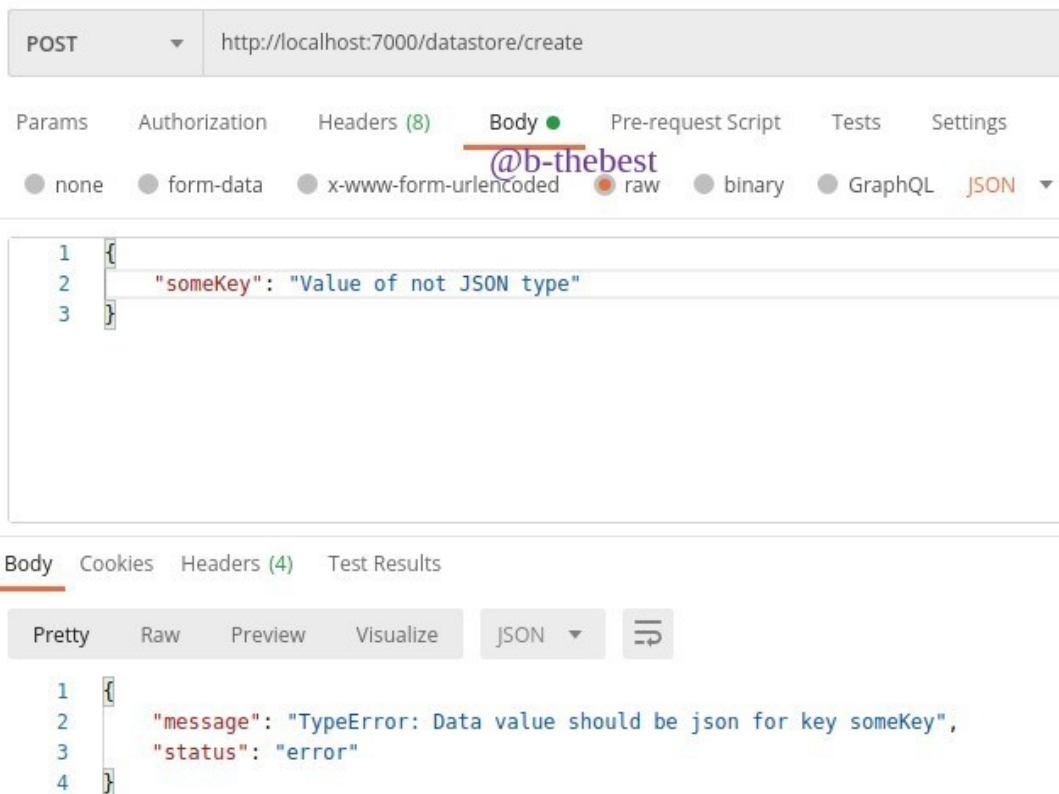
Pretty Raw Preview Visualize **JSON** ≡

```

1 {
2   "message": "TypeError: Key should be of type string without special character"
3   "status": "error"
4 }

```

6. Value should always be JSON type



POST ▼ http://localhost:7000/datastore/create

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼

```

1 {
2   "someKey": "Value of not JSON type"
3 }

```

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize **JSON** ≡

```

1 {
2   "message": "TypeError: Data value should be json for key someKey",
3   "status": "error"
4 }

```


7. JSON size should not exceed 16KB

POST ▼ http://localhost:7000/datastore/create

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

● none ● form-data ● x-www-form-urlencoded ● **raw** ● binary ● GraphQL ● JSON ▼

```

1 {
2   "someKey": {
3     "data > 16KB":
      "1aGGXjZuj0J5BcCaH4Ke230K0SktlPxSKDPw5z5GhPaCHQVvwCLkXzWKHH9xlhyGmH
      imEbAfUDPhXUjiZ7Bqx CZiV7S1Ky6XV1nz3LhpN4E2S0lkcxJ8FNPW9mTXoPehmjsW2
      UqFZcKUK08igUomhHX84elzAsT72qMmFhw6vqAC16uxpWg8b0ajZ9aEJ5DG4zsfZioJ
      jQb9GR8zrPqhg9hJBFjg3uk1uhhLNVmoqupk7FwraHJGYAwTDPrfybt3pojqsJDm0K
      8vCnRI3EbybuGI6cGLNRaA8vGq7XnCYC8fubbEAfy0A2xsHogPMLCaQ8mp2dwGLChL
      JhLQrNoxInylYzHTq03y8to42PN3iB9phz8kaoxe8lzcYryVZjHU447S7ZRCsz7Vs7l
  
```

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize JSON ▼ ≡

```

1 {
2   "message": "Data limit of value is 16KB exceeded for someKey",
3   "status": "error"
4 }
  
```

8. Reading data value present in database

GET ▼ http://localhost:7000/datastore/read?key=key1

Params **●** Authorization Headers (6) Body Pre-request Script

Query Params

	KEY
<input checked="" type="checkbox"/>	key
<input type="checkbox"/>	Key

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize JSON ▼ ≡

```

1 {
2   "key1": {
3     "Time-To-Live": 120,
4     "able": "goes",
5     "battle": "double",
6     "population": "valley"
7   }
8 }
  
```

9. Reading for key not present in database

GET <http://localhost:7000/datastore/read?key=key2>

Params ● Authorization Headers (6) Body Pre-request Script

Query Params [@b-thebest](#)

KEY
<input checked="" type="checkbox"/> key
Key

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize JSON

```
1 {  
2   "message": "KeyError: No data for given key",  
3   "status": "error"  
4 }
```

10. Trying to read key which is expired

GET <http://localhost:7000/datastore/read?key=key1>

Params ● Authorization Headers (6) Body Pre-request Script

Query Params [@b-thebest](#)

KEY
<input checked="" type="checkbox"/> key
Key

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize JSON

```
1 {  
2   "message": "Data expired",  
3   "status": "error"  
4 }
```

11. Deleting some data from database

The screenshot shows a REST client interface with a DELETE method selected. The URL is `http://localhost:7000/datastore/delete?key=key1`. The 'Params' tab is active, showing a query parameter 'key' with a value of 'key'. The 'Body' tab is also visible, showing a JSON response: `{ "message": "Data value deleted successfully", "status": "success" }`.

DELETE `http://localhost:7000/datastore/delete?key=key1`

Params **Authorization** Headers (8) Body **Pre-request Scri**

Query Params **@b-thebest**

	KEY
<input checked="" type="checkbox"/>	key
	Key

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize JSON `{`

```
1 {
2   "message": "Data value deleted successfully",
3   "status": "success"
4 }
```

12. Trying to delete expired data from database

The screenshot shows a REST client interface with a DELETE method selected. The URL is `http://localhost:7000/datastore/delete?key=key1`. The 'Params' tab is active, showing a query parameter 'key' with a value of 'key'. The 'Body' tab is also visible, showing a JSON response: `{ "message": "Data expired", "status": "error" }`.

DELETE `http://localhost:7000/datastore/delete?key=key1`

Params **Authorization** Headers (8) Body **Pre-request Scri**

Query Params **@b-thebest**

	KEY
<input checked="" type="checkbox"/>	key
	Key

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize JSON `{`

```
1 {
2   "message": "Data expired",
3   "status": "error"
4 }
```